

## ABSTRACT

A linear motor assembly includes opposing first and second magnet arrays; an elongated first yoke adapted to receive the first magnet array; an elongated second yoke adapted to receive the second magnet array; and a central magnet array positioned  
5 between the elongated first and second yokes, the central magnet array being adapted to slidably receive first and second coils on both sides of the central magnet array without a gap therebetween.